

Vegetation Management LLC
2901-12 Rivendell
Knoxville, TN 37922
206-812-8647
800-979-8994

"For Chemical Emergency"
Spill, Leak, Fire, Exposure or Accident, Call:
Chemtrec (24 Hours): (800) 424-9300
Outside U.S., call collect: (703) 527-3887

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: Vegetation Manager Oryzalin 4 Pro	CHEMICAL FORMULA: Oryzalin: 3,5-DinitroN4, N4-dipropyl-sulfanilamide
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SECTION 2 - HAZARDOUS INGREDIENT INFORMATION

Section 313 of SARA Title III: Ingredients subject to reporting are identified by asterisk (*)

CAS NO.	COMPONENT	%	ACGIH TLV	OSHA PEL	OTHER
019044-88-3	Oryzalin	41	N/A	N/A	N/A
	Inert Ingredients	59			

SECTION 3 - PHYSICAL PROPERTIES

BOILING POINT: 212 F	MELTING POINT: N/A	SPECIFIC GRAVITY (H ₂ O=1) 1.138 – 1.239 @ 25C (77F)	VAPOR PRESSURE (mmHg) 23 mmHg @ 25 C
VAPOR DENSITY (AIR=1): 1.178	% SOLUBILITY IN WATER: Miscible in water	% VOLATILE BY WEIGHT: NE	
APPEARANCE: Bright orange opaque liquid	ODOR: Slight aromatic odor	EVAPORATION RATE (Butyl Acetate=1) <1	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT & METHOD: No Ignition up to 200F (93.3 C) SCC	FLAMMABLE LIMITS IN AIR - LEL: Water based product	UEL:
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EXTINGUISHING MEDIA:
Water based product, will not burn

SPECIAL FIRE FIGHTING PROCEDURES: If product is involved in a fire, wear positive-pressure, self-contained breathing apparatus and full protective clothing

UNUSUAL FIRE AND EXPLOSION HAZARDS: If the water in the product has evaporated, the explosion potential of oryzalin as airborne dust is rated as severe. The minimum ignition temperature for a dust cloud is 714 °F (379 °C).

SECTION 5 - REACTIVITY DATA

STABILITY: Stable under normal conditions. If water in the mixture evaporates, however, the resultant mixture should be handled with care.

HAZARDOUS POLYMERIZATION: **N/A**

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides and other toxic gases may be formed if product is involved in a fire.

CONDITIONS & MATERIALS TO AVOID:
NONE

SECTION 6 - PROTECTIVE EQUIPMENT & EXPOSURE CONTROL METHODS

RESPIRATORY PROTECTION:
Atmospheric levels should be maintained below the exposure guidelines. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use NIOSH approved air-purifying respirator.

VENTILATION	LOCAL EXHAUST: ADEQUATE	MECHANICAL: ACCEPTABLE	SPECIAL: NONE	OTHER: NONE
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PROTECTIVE GLOVES: Chemical resistant gloves	EYE PROTECTION: Use safety glasses
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OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Long sleeved shirt and long pants; shoes plus socks	WORK/HYGIENIC PRACTICES: AVOID SKIN AND EYE CONTACT
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PRODUCT NAME: Vegetation Manager Oryzalin 4 Pro

SECTION 7 - HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY:

SKIN AND EYES

CARCINOGEN:

NONE KNOWN

NTP:

N/A

IARC MONOGRAPHS:

N/A

OSHA:

N/A

INHALATION:

At room temperature, exposure to vapors are minimal due to physical properties.

EYE CONTACT:

May cause slight transient eye irritation. Corneal injury is unlikely.

SKIN CONTACT:

Prolonged exposure may cause some skin irritation.

INGESTION:

Single dose toxicity is low. The oral LD50 for rats is 5000 mg/kg

SECTION 8 - EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINS.

SKIN CONTACT:

Wash off in flowing water or shower.

INHALATION:

Remove to fresh air if effects occur. Consult a physician.

INGESTION:

If swallowed seek medical attention. DO NOT induce vomiting unless directed to do so by medical personnel.

SECTION 9 - SPILL, LEAK & DISPOSAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Use absorbent material to contain and clean up small spills. Scoop up and dispose as waste in approved disposal facility. Prevent runoff. DISPOSE OF IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

WASTE DISPOSAL METHOD:

DISPOSE OF IN APPROVED WASTE DISPOSAL FACILITY IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 10 - SHIPPING DATA

DOT SHIPPING NAME:

NONE

SECTION 11 - SPECIAL PRECAUTIONS & OTHER INFORMATION

SPECIAL INSTRUCTIONS:

OTHER INFORMATION/PRECAUTIONS:

Read and follow all label instructions before use. Avoid contaminating water. Do not reuse containers. Open dumping is prohibited.

COMMON ABBREVIATIONS THAT MAY HAVE BEEN USED: N/A = NOT APPLICABLE N/E = NOT ESTABLISHED

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DATE: 03/14/02